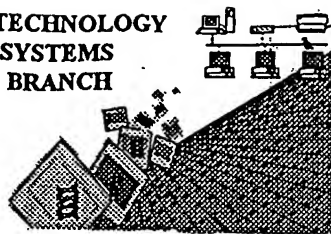


BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 101029,359A
Source: 01PE
Date Processed by STIC: 3/27/02

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER**
VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/efb/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

Raw Sequence Listing Error Summary

01PE

ERROR DETECTED

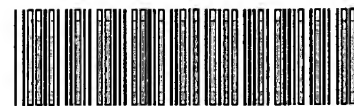
SUGGESTED CORRECTION

SERIAL NUMBER: 101029,359A

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
 (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (ii) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences
 (NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000
- 9 ✓ Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa; and which residue n or Xaa represents.
- 10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
 Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.



Does Not Comply OIPE
Corrected Diskette Needed

Error on p. 2

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/029,359A

DATE: 03/27/2002

TIME: 13:59:40

Input Set : A:\00404.sequencelist.txt

Output Set: N:\CRF3\03272002\J029359A.raw

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3 <110> APPLICANT: Pharmacia AB
5 <120> TITLE OF INVENTION: Protein Cluster II
7 <130> FILE REFERENCE: 00404
9 <140> CURRENT APPLICATION NUMBER: US/10/029,359A
11 <141> CURRENT FILING DATE: 2001-12-21
13 <160> NUMBER OF SEQ ID NOS: 6
15 <170> SOFTWARE: PatentIn version 3.0
17 <210> SEQ ID NO: 1
18 <211> LENGTH: 505
19 <212> TYPE: DNA
20 <213> ORGANISM: human
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24 <222> LOCATION: (21)..(497)
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33                               Met Thr Glu Asn Ser Leu Ser Glu Met Ala Ser
34                               1           5           10
36 aaa tcc tgg ctg aat ttt tta acc ttc ctc tat gga tcg gca ata ggg      101
37 Lys Ser Trp Leu Asn Phe Leu Thr Phe Leu Tyr Gly Ser Ala Ile Gly
38                               15           20           25
40 ttt att tta ttt tct cag cta ctt agt att ttg ttg gga gaa gag ggt      149
41 Phe Ile Leu Phe Ser Gln Leu Leu Ser Ile Leu Leu Gly Glu Glu Gly
42                               30           35           40
44 gac acc cag act aat gtt ctt cat aat gat cct cat gcg agg cat tca      197
45 Asp Thr Gln Thr Asn Val Leu His Asn Asp Pro His Ala Arg His Ser
46                               45           50           55
48 gat gat aat gga cag aat cat cta gga gga caa atg aac ttc aat gca      245
49 Asp Asp Asn Gly Gln Asn His Leu Gly Gly Gln Met Asn Phe Asn Ala
50 60                               65           70           75
52 gat tct agc caa cgt aaa gat gag aac aca gaa atc gct gaa aac ctc      293
53 Asp Ser Ser Gln Arg Lys Asp Glu Asn Thr Glu Ile Ala Glu Asn Leu
54                               80           85           90
W--> 56 tat nag caa gtt aaa att ctt tgc tgg gtt atg aca ggc tct caa aac      341
W--> 57 Tyr Xaa Gln Val Lys Ile Leu Cys Trp Val Met Thr Gly Ser Gln Asn
58                               95          100          105
60 cta cag aaa aag gcc aaa cat gtc aaa gct aca tgg gcc cag cgt tgt      389
61 Leu Gln Lys Lys Ala Lys His Val Lys Ala Thr Trp Ala Gln Arg Cys
62                               110          115          120

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RAW SEQUENCE LISTING

DATE: 03/27/2002

PATENT APPLICATION: US/10/029,359A

TIME: 13:59:40

Input Set : A:\00404.sequencelist.txt

Output Set: N:\CRF3\03272002\J029359A.raw

64 cta aaa gta ttt ttt atg agt tca gaa gaa aat aaa gac ttc cgt gct 437
 65 Leu Lys Val Phe Phe Met Ser Ser Glu Glu Asn Lys Asp Phe Arg Ala
 66 125 130 135
 68 gtg gga ttg aaa acc aaa gca ggc aga gat gag cta tac tgg aaa aca 485
 69 Val Gly Leu Lys Thr Lys Ala Gly Arg Asp Glu Leu Tyr Trp Lys Thr
 70 140 145 150 155
 72 att aac ctt ttc agtatgtt 505
 73 Ile Asn Leu Phe
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 78 <211> LENGTH: 159
 79 <212> TYPE: PRT
 80 <213> ORGANISM: human
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 83 <221> NAME/KEY: misc_feature
 84 <222> LOCATION: (93)..()
 85 <223> OTHER INFORMATION: n=a, g, c or t
 87 <400> SEQUENCE: 2
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 90 1 5 10 15
 93 Phe Leu Thr Phe Leu Tyr Gly Ser Ala Ile Gly Phe Ile Leu Phe Ser
 94 20 25 30
 97 Gln Leu Leu Ser Ile Leu Leu Gly Glu Glu Gly Asp Thr Gln Thr Asn
 98 35 40 45
 101 Val Leu His Asn Asp Pro His Ala Arg His Ser Asp Asp Asn Gly Gln
 102 50 55 60
 105 Asn His Leu Gly Gly Gln Met Asn Phe Asn Ala Asp Ser Ser Gln Arg
 106 65 70 75 80
 W--> 109 Lys Asp Glu Asn Thr Glu Ile Ala Glu Asn Leu Tyr Xaa Gln Val Lys
 110 85 90 95
 113 Ile Leu Cys Trp Val Met Thr Gly Ser Gln Asn Leu Gln Lys Lys Ala
 114 100 105 110
 117 Lys His Val Lys Ala Thr Trp Ala Gln Arg Cys Leu Lys Val Phe Phe
 118 115 120 125
 121 Met Ser Ser Glu Glu Asn Lys Asp Phe Arg Ala Val Gly Leu Lys Thr
 122 130 135 140
 125 Lys Ala Gly Arg Asp Glu Leu Tyr Trp Lys Thr Ile Asn Leu Phe
 126 145 150 155
 129 <210> SEQ ID NO: 3
 130 <211> LENGTH: 489
 131 <212> TYPE: DNA
 132 <213> ORGANISM: human
 134 <220> FEATURE:
 135 <221> NAME/KEY: CDS
 136 <222> LOCATION: (55)..(489)
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 141 Asn
 142 1
 144 aca ggt gtc act gac aaa ctc tat caa aag atg aaa att ctt tgc tgg 105

no n in sequence;
 must explain Xaa - see error
 summary sheet item 9

RAW SEQUENCE LISTING

DATE: 03/27/2002

PATENT APPLICATION: US/10/029,359A

TIME: 13:59:40

Input Set : A:\00404.sequencelist.txt

Output Set: N:\CRF3\03272002\J029359A.raw

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145 Thr Gly Val Thr Asp Lys Leu Tyr Gln Lys Met Lys Ile Leu Cys Trp
146          5          10          15
148 att atg aca gga cct caa aat cta gaa aaa aag atc aga cgc atc aga      153
149 Ile Met Thr Gly Pro Gln Asn Leu Glu Lys Lys Ile Arg Arg Ile Arg
150          20          25          30
152 gat aca tgg gcc cag ggt tgc aat aaa gcg ttg ttt atg agc tca aaa      201
153 Asp Thr Trp Ala Gln Gly Cys Asn Lys Ala Leu Phe Met Ser Ser Lys
154          35          40          45
156 gaa aat aaa gac ttc tct act gtg gga tta cac acc aaa gaa gac aga      249
157 Glu Asn Lys Asp Phe Ser Thr Val Gly Leu His Thr Lys Glu Asp Arg
158 50          55          60          65
160 aac caa ctg tcc tgg aaa ata gtt aaa gct ttt cta tat gct cat gac      297
161 Asn Gln Leu Ser Trp Lys Ile Val Lys Ala Phe Leu Tyr Ala His Asp
162          70          75          80
164 cat tat ctg gaa tac atg gat tgg ttc atg aaa gca gat gat gat ata      345
165 His Tyr Leu Glu Tyr Met Asp Trp Phe Met Lys Ala Asp Asp Asp Ile
166          85          90          95
168 tgt ata tat atc aca ttg gac aac ttg aaa tgg ctt ctc aca aac tat      393
169 Cys Ile Tyr Ile Thr Leu Asp Asn Leu Lys Trp Leu Leu Thr Asn Tyr
170          100          105          110
172 aac cct gat gaa tcc act tac ttt ggg aaa aga ttt aag cac tgc aga      441
173 Asn Pro Asp Glu Ser Thr Tyr Phe Gly Lys Arg Phe Lys His Cys Arg
174          115          120          125
176 aaa cag gac tac atg act gga gga gca gga tat gta ctg agc aaa gaa      489
177 Lys Gln Asp Tyr Met Thr Gly Gly Ala Gly Tyr Val Leu Ser Lys Glu
178 130          135          140          145
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182 <211> LENGTH: 145
183 <212> TYPE: PRT
184 <213> ORGANISM: human
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189 1          5          10          15
192 Trp Ile Met Thr Gly Pro Gln Asn Leu Glu Lys Lys Ile Arg Arg Ile
193          20          25          30
196 Arg Asp Thr Trp Ala Gln Gly Cys Asn Lys Ala Leu Phe Met Ser Ser
197          35          40          45
200 Lys Glu Asn Lys Asp Phe Ser Thr Val Gly Leu His Thr Lys Glu Asp
201          50          55          60
204 Arg Asn Gln Leu Ser Trp Lys Ile Val Lys Ala Phe Leu Tyr Ala His
205 65          70          75          80
208 Asp His Tyr Leu Glu Tyr Met Asp Trp Phe Met Lys Ala Asp Asp Asp
209          85          90          95
212 Ile Cys Ile Tyr Ile Thr Leu Asp Asn Leu Lys Trp Leu Leu Thr Asn
213          100          105          110
216 Tyr Asn Pro Asp Glu Ser Thr Tyr Phe Gly Lys Arg Phe Lys His Cys
217          115          120          125
220 Arg Lys Gln Asp Tyr Met Thr Gly Gly Ala Gly Tyr Val Leu Ser Lys
221          130          135          140

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RAW SEQUENCE LISTING

DATE: 03/27/2002

PATENT APPLICATION: US/10/029,359A

TIME: 13:59:40

Input Set : A:\00404.sequencelist.txt

Output Set: N:\CRF3\03272002\J029359A.raw

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224 Glu
225 145
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230 <212> TYPE: DNA
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233 <220> FEATURE:
234 <221> NAME/KEY: CDS
235 <222> LOCATION: (2)..(934)
237 <400> SEQUENCE: 5
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239   Asp Asn Gly Gln Asn His Leu Glu Gly Gln Met Asn Phe Asn Ala Asp
240   1          5          10          15
242 tct agc caa cat aaa gat gag aac aca gac att gct gaa aac ctc tat      97
243 Ser Ser Gln His Lys Asp Glu Asn Thr Asp Ile Ala Glu Asn Leu Tyr
244          20          25          30
246 cag aaa gtt aga att ctt tgc tgg gtt atg acc ggc cct caa aac cta      145
247 Gln Lys Val Arg Ile Leu Cys Trp Val Met Thr Gly Pro Gln Asn Leu
248          35          40          45
250 gag aaa aag gcc aaa cac gtc aaa gct act tgg gcc cag cgt tgt aac      193
251 Glu Lys Lys Ala Lys His Val Lys Ala Thr Trp Ala Gln Arg Cys Asn
252          50          55          60
254 aaa gtg ttg ttt atg agt tca gaa gaa aat aaa gac ttc cct gct gtg      241
255 Lys Val Leu Phe Met Ser Ser Glu Glu Asn Lys Asp Phe Pro Ala Val
256 65          70          75          80
258 gga ctg aaa acc aaa gaa ggc aga gat caa cta tac tgg aaa aca att      289
259 Gly Leu Lys Thr Lys Glu Gly Arg Asp Gln Leu Tyr Trp Lys Thr Ile
260          85          90          95
262 aaa gct ttt cag tat gtt cat gaa cat tat tta caa gat gct gat tgg      337
263 Lys Ala Phe Gln Tyr Val His Glu His Tyr Leu Gln Asp Ala Asp Trp
264          100          105          110
266 ttt ttg aaa gca gat gat gac acg tat gtc ata cta gac aat ttg agg      385
267 Phe Leu Lys Ala Asp Asp Asp Thr Tyr Val Ile Leu Asp Asn Leu Arg
268          115          120          125
270 tgg ctt ctt tca aaa tac gac cct gaa gaa ccc att tac ttt ggg aga      433
271 Trp Leu Leu Ser Lys Tyr Asp Pro Glu Glu Pro Ile Tyr Phe Gly Arg
272          130          135          140
274 aga ttt aag cct tat gta aag cag ggc tac atg agt gga gga gca gga      481
275 Arg Phe Lys Pro Tyr Val Lys Gln Gly Tyr Met Ser Gly Gly Ala Gly
276 145          150          155          160
278 tat gta cta agc aaa gaa gcc ttg aaa aga ttt gtt gat gca ttt aaa      529
279 Tyr Val Leu Ser Lys Glu Ala Leu Lys Arg Phe Val Asp Ala Phe Lys
280          165          170          175
282 aca gac aag tgt aca cat agt tcc tcc att gaa gac tta gca ctg ggg      577
283 Thr Asp Lys Cys Thr His Ser Ser Ser Ile Glu Asp Leu Ala Leu Gly
284          180          185          190
286 aga tgc atg gaa att atg aat gta gaa gca gga gat tcc aga gat acc      625
287 Arg Cys Met Glu Ile Met Asn Val Glu Ala Gly Asp Ser Arg Asp Thr
288          195          200          205

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RAW SEQUENCE LISTING

DATE: 03/27/2002

PATENT APPLICATION: US/10/029,359A

TIME: 13:59:40

Input Set : A:\00404.sequencelist.txt

Output Set: N:\CRF3\03272002\J029359A.raw

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291 Ile Gly Lys Glu Thr Phe His Pro Phe Val Pro Glu His His Leu Ile
292      210                      215                      220
294 aaa ggt tat cta cct aga acg ttt tgg tac tgg aat tac aac tat tat      721
295 Lys Gly Tyr Leu Pro Arg Thr Phe Trp Tyr Trp Asn Tyr Asn Tyr Tyr
296 225                      230                      235                      240
298 cct cct gta gag ggt cct ggt tgc tgc tct gat ctt gca gtt tct ttt      769
299 Pro Pro Val Glu Gly Pro Gly Cys Cys Ser Asp Leu Ala Val Ser Phe
300      245                      250                      255
302 cac tat gtt gat tct aca acc atg tat gag tta gaa tac ctc gtt tat      817
303 His Tyr Val Asp Ser Thr Thr Met Tyr Glu Leu Glu Tyr Leu Val Tyr
304      260                      265                      270
306 cat ctt cgt cca tat ggt tat tta tac aga tat caa cct acc tta cct      865
307 His Leu Arg Pro Tyr Gly Tyr Leu Tyr Arg Tyr Gln Pro Thr Leu Pro
308      275                      280                      285
310 gaa cgt ata cta aag gaa att agt caa gca aac aaa aat gaa gat aca      913
311 Glu Arg Ile Leu Lys Glu Ile Ser Gln Ala Asn Lys Asn Glu Asp Thr
312      290                      295                      300
314 aaa gtg aag tta gga aat cct tgaaagaaaa tcatgaatga acaaaggtaa      964
315 Lys Val Lys Leu Gly Asn Pro
316 305                      310
318 tatgtctagc actgcactga aaaaggactt ctgcattttct gacatagaac actggaatcc      1024
320 cagtgaggaa ttctaagtga acattcctta tagaaacctt tcacatgaat gactataaac      1084
322 tgaagcttta aatgagctgt gaagtgtgtt aaaatgtgtt ttgatacagt aatatataaa      1144
324 tatgtctata tatatgagga acttgtgttt tttaaatggt ggccaggtag aggaactaga      1204
326 aaagagattt tgttgctgt tttctgacca tctgtgttat tgtcactgag aaactaaaat      1264
328 agtaaattta ctaaaactac actgcaccat gttagtaata aacagatctg ccttaaagaa      1324
330 aagaaaattt tagaaagaaa tattgttgct cagtgtgtgt aatatagctc aagaattgag      1384
332 tttatatattg cagtatgcta taaatgatac cccctacca caccacaca cacagttttt      1444
334 gtctaatagaa aatgttgctg tgattattta taattggtag tttttcttcc agaagaagct      1504
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342 <213> ORGANISM: human
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350      20                      25                      30
353 Gln Lys Val Arg Ile Leu Cys Trp Val Met Thr Gly Pro Gln Asn Leu
354      35                      40                      45
357 Glu Lys Lys Ala Lys His Val Lys Ala Thr Trp Ala Gln Arg Cys Asn
358      50                      55                      60
361 Lys Val Leu Phe Met Ser Ser Glu Glu Asn Lys Asp Phe Pro Ala Val
362 65                      70                      75                      80
365 Gly Leu Lys Thr Lys Glu Gly Arg Asp Gln Leu Tyr Trp Lys Thr Ile
366      85                      90                      95
369 Lys Ala Phe Gln Tyr Val His Glu His Tyr Leu Gln Asp Ala Asp Trp

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VERIFICATION SUMMARY

DATE: 03/27/2002

PATENT APPLICATION: US/10/029,359A

TIME: 13:59:41

Input Set : A:\00404.sequencelist.txt

Output Set: N:\CRF3\03272002\J029359A.raw

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L:109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2